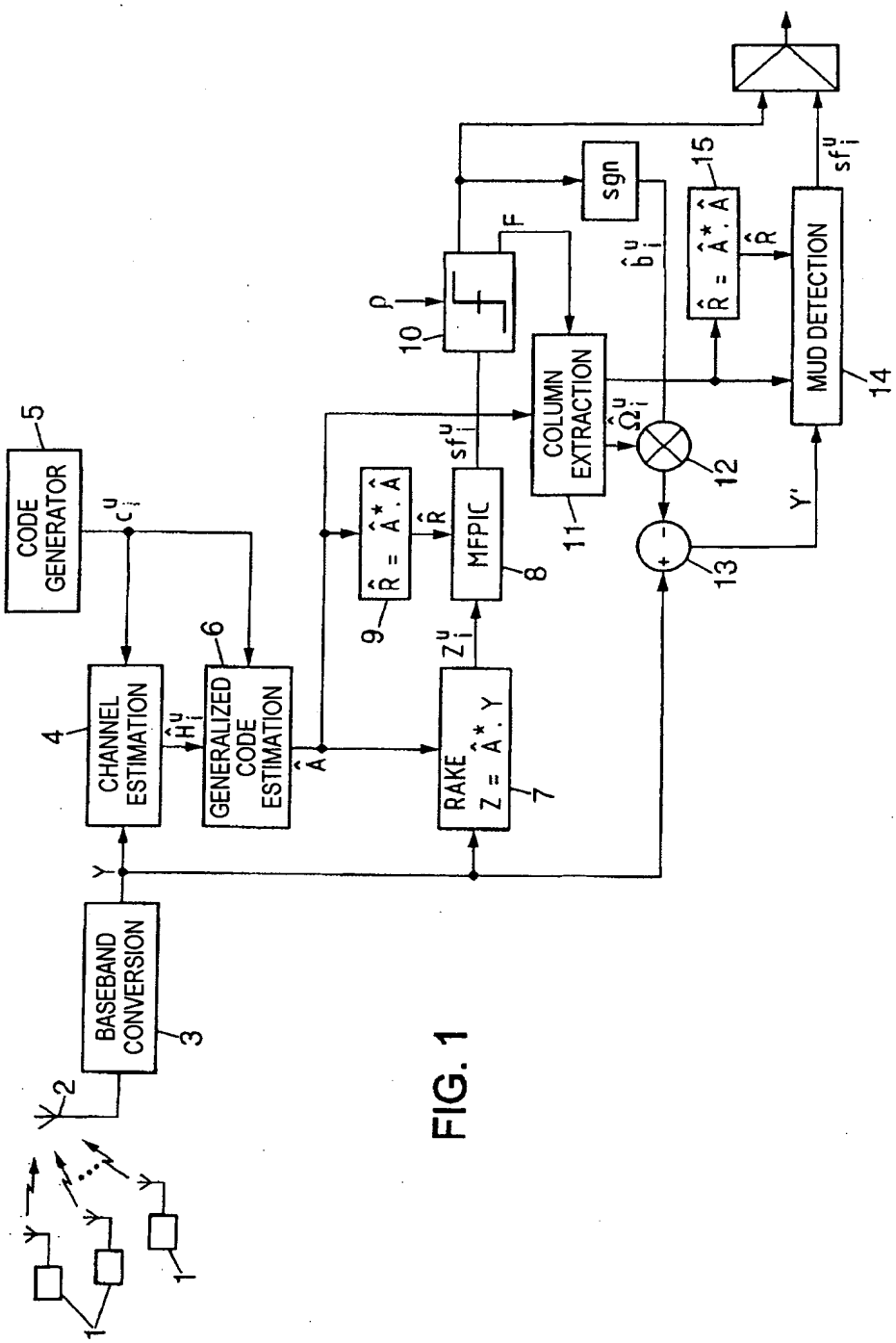
CODE GENERATOR
5
c_i^u
CHANNEL ESTIMATION
4
$\hat{H}_i^u$
GENERALIZED CODE ESTIMATION
6
$\hat{A}$
RAKE $Z = \hat{A}^* . Y$
7
Z_i^u
MFPIC
8
sf_i^u
$\hat{R} = \hat{A}^* . \hat{A}$
9
$\hat{R}$
ρ
10
F
COLUMN EXTRACTION
11
$\hat{\Omega}_i^u$
sgn
$\hat{b}_i^u$
$\hat{R} = \hat{A}^* . \hat{A}$
15
$\hat{R}$
MUD DETECTION
14
sf_i^u
Y'
12
13
Y
BASEBAND CONVERSION
3
2
1

FIG. 1

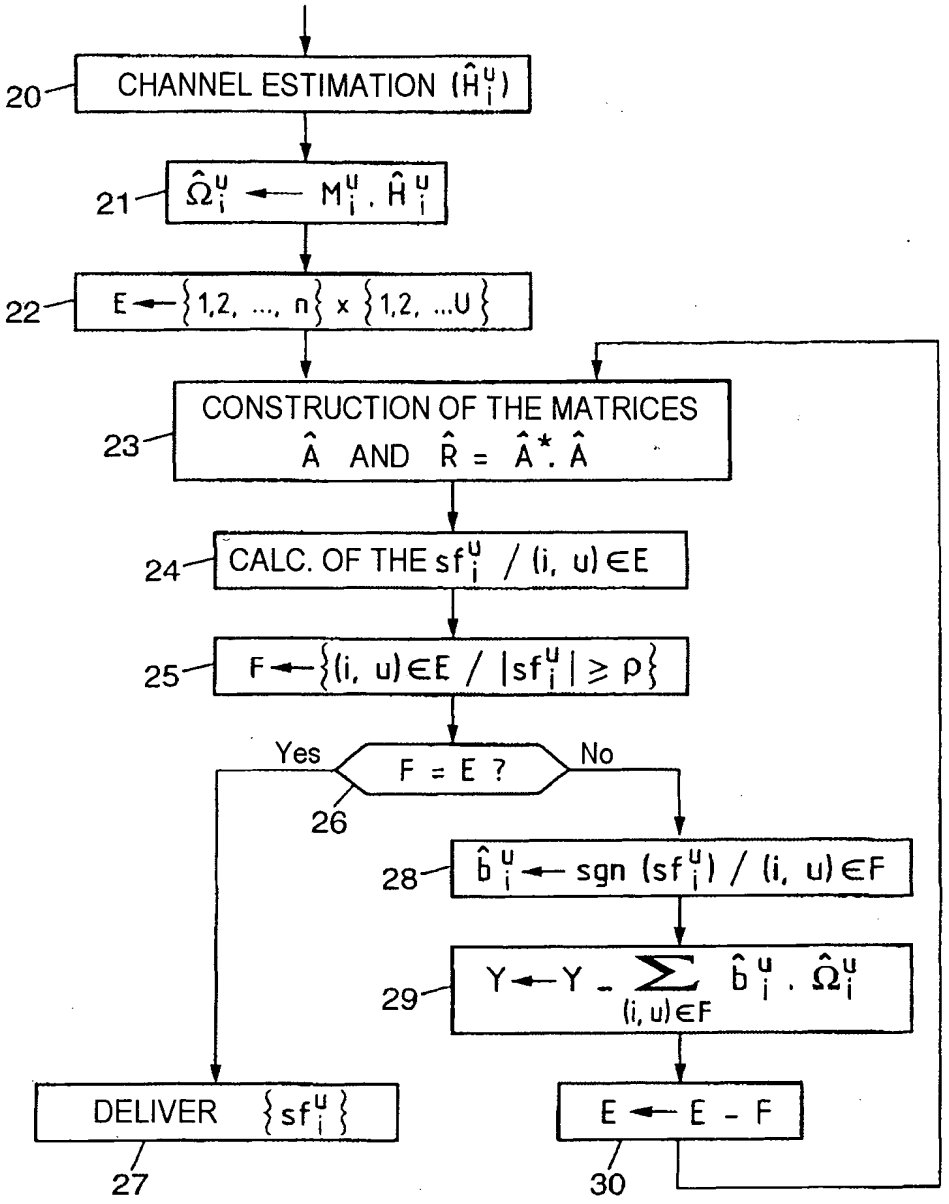
20
CHANNEL ESTIMATION ($\hat{H}_i^u$)
21
$\hat{\Omega}_i^u \leftarrow M_i^u . \hat{H}_i^u$
22
$E \leftarrow \{1,2, ..., n\} \times \{1,2, ...U\}$
23
CONSTRUCTION OF THE MATRICES
$\hat{A}$ AND $\hat{R} = \hat{A}^* . \hat{A}$
24
CALC. OF THE sf_i^u / $(i, u) \in E$
25
$F \leftarrow \{(i, u) \in E / |sf_i^u| \geq \rho\}$
Yes
F = E ?
No
26
28
$\hat{b}_i^u \leftarrow sgn(sf_i^u)$ / $(i, u) \in F$
29
$Y \leftarrow Y - \sum_{(i,u)\in F} \hat{b}_i^u . \hat{\Omega}_i^u$
DELIVER $\{sf_i^u\}$
27
$E \leftarrow E - F$
30

FIG. 2